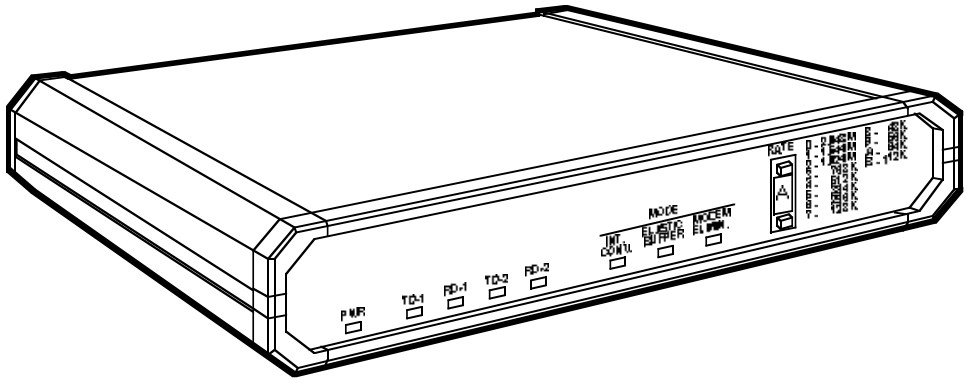
BLACK BOX®
NETWORK SERVICES

Modular Modem Eliminator



Three units in one: interface converter, modem eliminator, and elastic buffer.

Key Features

- *Interface converter, modem eliminator, and elastic buffer—all in one compact unit!*
- *Supports V.24/RS-232, V.35, V.36/RS-449, X.21, and G.703 interfaces.*
- *Field-replaceable interface modules.*
- *DCE/DTE switch for each module (except for G.703 interface).*
- *Speeds up to 2.048 Mbps.*
- *G.703 support for 64-Kbps co-directional, T1, and E1.*

The Modular Modem Eliminator connects any two data-communications products with similar or different interfaces. It functions in three ways: as an interface converter, as a modem eliminator, and as an elastic buffer. A handy switch lets you select the mode of operation.

- As an interface converter, the unit lets you connect DTE to DCE with different interfaces. It converts the physical and electrical difference between the two interfaces.
- As a modem eliminator, the unit eliminates the need for two synchronous modems. It allows you to connect two DTEs with similar or different interfaces. The converter provides clock, and performs handshaking of control signals, simulating modem operation.
- As an elastic buffer, the unit lets you connect two independently-clocked DCEs. It buffers data in both directions to overcome different clock phases and reduce data loss for different clock sources. The two DCEs may have similar or different interfaces.

And the Modular Modem Eliminator runs at data rates up to 2.048 Mbps using internal or external clock.

A complete system consists of the Modular Modem Eliminator and two Interface Modules of your choice.

- General-purpose interface modules are available for RS-232, V.35, X.21, and V.36 interfaces.
- CCITT Rec. G.703 interface modules are available for 64-Kbps DB15, 2.048 Mbps Coax, and 1.544-Mbps T1.

Typical Application

Use the ME260A/ME260AE as an interface converter, modem eliminator, or elastic buffer.

Three functions in one handy package! Figure 1 shows the unit used as a modem eliminator. Figure 2 illustrates an interface-converter application. Figure 3 displays the unit's function as an elastic buffer.

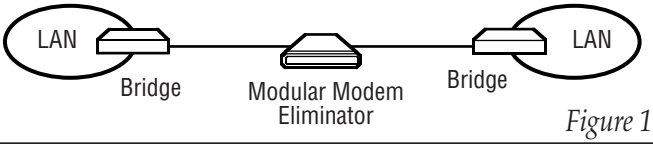


Figure 1.

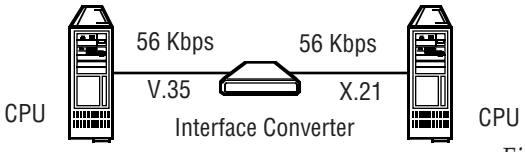


Figure 2.

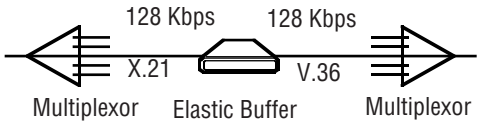


Figure 3.

Specifications

Interface Converter:

Speed — Up to 2.048 Mbps

Transmission Format — Synchronous

Transmission Mode — Full- or half-duplex

Modem Eliminator:

Transmission Format — Synchronous

Transmission Mode — Full- or half-duplex

Timing — Internal or external clock, selectable: *Internal clock:* 48, 56, 64, 112, 128, 256, 384, 512, 768, 1024; *External clock:* G.703 modules: 64, 1544, or 2048 Kbps, All other interfaces: Up to 2.048 Mbps

RTS/CTS Delay — Selectable to 0, 6, or 53 msec for each DTE

DCD — Selectable to be continuously on or controlled by the RTS signal

Elastic Buffer:

Transmission Format — Synchronous

Transmisssion Mode — Full- or half-duplex

Speed — Up to 2.048 Mbps

Buffer Size — 2 buffers, 256 bits each

General:

Interface Module Connectors — ME261C, ME265C: (1) DB25 female; ME262C: (1) 34-pin female; ME263C, ME266C, ME267C: (1) DB15 female; ME268C: (1) DB15 female (balanced interface), (2) BNC (unbalanced interface)

Power — ME260AE: 230 VAC, 50 Hz, 5 watts

Size — ME260AE: H4.4 x W2.7 x D2.4 cm; Interface Modules: H7.0 x W0.1 x D9.9 cm

Weight — ME260A, ME260AE: 1.9 kg; ME261C, ME263C: 70 g; ME262C: 115 g; 75 g; ME265C: 75 g; ME266C: 90 g; ME267C, ME268C: 80 g

Additional equipment you may need:

- RS-232 Cable (EDN25C)
- V.35 Cable (EYN450)
- X.21 Cable (EVNX21)
- RS-530 Cable (EVN530)
- Coaxial Cable (ETN59)

For these and other components...

Call our expert Technical Support Staff for all your data-communications needs. They'll help you find the best equipment for your application.

Ordering Information

This information will help you place your order quickly.

PRODUCT NAME	ORDER CODE
Modular Modem Eliminator, 230 VAC	ME260AE
General-purpose interface modules:	
RS-232 Module	ME261C
V.35 Module	ME262C
X.21 Module	ME263C
V.36 Module	ME265C
CCITT Rec. G.703 interface modules:	
G.703 Module (DB15)	ME266C
G.703 Module (Coax)	ME267C
G.703 Module (T1)	ME268C